

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2005/003078
--

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 H01B 11/22**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H01B 11/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Korean Patents and applications for inventions since 1975
 Korean Utility models and applications for Utility models since 1975
 Japanese Utility models and application for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 eKIPASS "optical", "fiber", "composite", "install", "tubes", "power", "cables"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y1	US 5897103 A (Koninklijke PTT Nederland N.V.) 27 Apr. 1999 See the whole document	1-2 3
Y2	US 6049647 A (Siecor Operations, LLC) 11 Apr. 2000 See the abstract	3
A	KR2019954685 U (Goldstar Electric Cables Ltd.) 18 Feb. 1995 See the claims	3

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earliest application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

18 OCTOBER 2005 (18.10.2005)

Date of mailing of the international search report

18 OCTOBER 2005 (18.10.2005)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
 920 Dunsan-dong, Seo-gu, Daejeon 302-701,
 Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

PARK, Jin Seok

Telephone No. 82-42-481-5782



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2005/002078

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US05897103	27.04.1999	AT198799E AU199666594B2 AU6659496A1 AU707520B2 BG102207A BR9609764A CA2227781AA CN1094203B CN1094203C CN1192278 CN1192278A CZ289441B6 CZ9800190A3 DE69611615C0 DE69611615T2 DK840901T3 EA260B1 EP00756186A1 EP00840901B1 EP0756186A1 EP0840901A1 EP756186A1 EP840901A1 EP840901B1 ES2153967T3 GR3035737T3 HK1015888A1 JP11509720T2 JP11509720 KR1019990035785 N0980141A N0980141A0 PL324657A1 R0117486B1 SK9298A3 TR9800087T1 US06129341 US5897103A US6129341A W09704344A1 ZA9606234A	15.02.2001 18.02.1997 18.02.1997 15.07.1999 31.08.1998 21.12.1999 06.02.1997 .B 13.11.2002 02.09.1998 02.09.1998 16.01.2002 17.06.1998 22.02.2001 17.05.2001 17.04.2001 25.02.1999 29.01.1997 17.01.2001 29.01.1997 13.05.1998 29.01.1997 13.05.1998 17.01.2001 16.03.2001 31.07.2001 28.02.2003 24.08.1999 24.08.1999 25.05.1999 13.01.1998 13.01.1998 08.06.1998 29.03.2002 02.12.1998 21.04.1998 10.10.2000 27.04.1999 10.10.2000 06.02.1997 23.01.1998

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2005/002078

US6049647A	11.04.2000	CA2247549AA	16.03.1999
		CA2298915AA	26.08.2000
		CA2298915A1	26.08.2000
		JP11176255A2	02.07.1999
		JP11176255	02.07.1999
		US05917977	29.06.1999
		US06049647	11.04.2000
		US5917977A	29.06.1999
		US6049647A	11.04.2000

PATENT COOPERATION TREATY

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PCT04-059	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/KR2005/002078	International filing date (<i>day/month/year</i>) 30 JUNE 2005 (30.06.2005)	(Earliest) Priority Date (<i>day/month/year</i>) 10 SEPTEMBER 2004 (10.09.2004)
Applicant LS Cable Ltd. et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

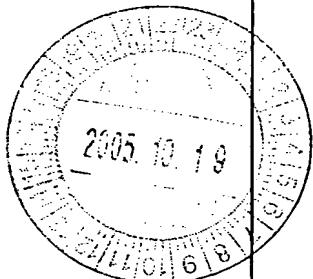
2. Certain claims were found unsearchable (See Box No. II)

3. Unity of invention is lacking (See Box No. III)

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:



5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 3

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

- b. none of the figure is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2005/002078

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 H01B 11/22**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H01B 11/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and application for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS "optical", "fiber", "composite", "install", "tubes", "power", "cables"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y1	US 5897103 A (Koninklijke PTT Nederland N.V.) 27 Apr. 1999 See the whole document	1-2 3
Y2	US 6049647 A (Siecor Operations, LLC) 11 Apr. 2000 See the abstract	3
A	KR2019954685 U (Goldstar Electric Cables Ltd.) 18 Feb. 1995 See the claims	3

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
18 OCTOBER 2005 (18.10.2005)

Date of mailing of the international search report

18 OCTOBER 2005 (18.10.2005)Name and mailing address of the ISA/KR

 Korean Intellectual Property Office
 920 Dunsan-dong, Seo-gu, Daejeon 302-701,
 Republic of Korea
 Facsimile No. 82-42-472-7140

Authorized officer

PARK, Jin Seok

Telephone No. 82-42-481-5782



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2005/002078

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US05897103	27.04.1999	AT198799E AU199666594B2 AU6659496A1 AU707520B2 BG102207A BR9609764A CA2227781AA CN1094203B CN1094203C CN1192278 CN1192278A CZ28944186 CZ9800190A3 DE69611615C0 DE69611615T2 DK840901T3 EA260B1 EP00756186A1 EP00840901B1 EP0756186A1 EP0840901A1 EP756186A1 EP840901A1 EP840901B1 ES2153967T3 GR3035737T3 HK1015888A1 JP11509720T2 JP11509720 KR1019990035785 N0980141A N0980141A0 PL324657A1 R0117486B1 SK9298A3 TR9800087T1 US06129341 US5897103A US6129341A W09704344A1 ZA9606234A	15.02.2001 18.02.1997 18.02.1997 15.07.1999 31.08.1998 21.12.1999 06.02.1997 .B 13.11.2002 02.09.1998 02.09.1998 16.01.2002 17.06.1998 22.02.2001 17.05.2001 17.04.2001 25.02.1999 29.01.1997 17.01.2001 29.01.1997 13.05.1998 29.01.1997 13.05.1998 17.01.2001 16.03.2001 31.07.2001 28.02.2003 24.08.1999 24.08.1999 25.05.1999 13.01.1998 13.01.1998 08.06.1998 29.03.2002 02.12.1998 21.04.1998 10.10.2000 27.04.1999 10.10.2000 06.02.1997 23.01.1998

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2005/002078

US6049647A	11.04.2000	CA2247549AA	16.03.1999
		CA2298915AA	26.08.2000
		CA2298915A1	26.08.2000
		JP11176255A2	02.07.1999
		JP11176255	02.07.1999
		US05917977	29.06.1999
		US06049647	11.04.2000
		US5917977A	29.06.1999
		US6049647A	11.04.2000